

Serial Number: 09/945529☐

Changed a file from non-ASCII to ASCII

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line

☐

Edited a format error in the Current Application Data section, specifically:

☐Edited the Current Application Data section with the actual current number. The number input applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐

Corrected subheading placement. All responses must be on the same line as each subheading applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included:

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☐Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename a  
☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_☐

Inserted mandatory headings, specifically: \_\_\_\_\_

☐

Corrected an obvious error in the response, specifically:

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically:

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field according due to a PatentIn bug). Sequences corrected: \_\_\_\_\_☒

Other:

Aligned left misaligned margins on  
Fields 150 and 151

\*Examiner: The above corrections must be communicated to the applicant in the first C  
Action. DO NOT send a copy of this form.

OIPE

## RAW SEQUENCE LISTING

DATE: 11/07/2001

PATENT APPLICATION: US/09/965,529

TIME: 15:03:48

Input Set : A:\PF-0731-USA.txt

Output Set: N:\CRF3\11072001\I965529.raw

2 <110> APPLICANT: LAL, Preeti  
 3 YUE, Henry  
 4 TANG, Y. Tom  
 5 BANDMAN, Olga  
 6 BURFORD, Neil  
 7 AZIMZAI, Yalda  
 8 BAUGHN, Mariah R.  
 9 LU, Dyung Aina M.  
 10 PATTERSON, Chandra

ENTERED

W--&gt; 11 &lt;120&gt; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS

W--&gt; 12 &lt;130&gt; FILE REFERENCE: PF-0731 USA

W--&gt; 13 &lt;140&gt; CURRENT APPLICATION NUMBER: To Be Assigned

C--&gt; 14 &lt;141&gt; CURRENT FILING DATE: 2001-09-26

15 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315

W--&gt; 16 &lt;151&gt; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14

W--&gt; 17 &lt;160&gt; NUMBER OF SEQ ID: 74

18 &lt;170&gt; SOFTWARE: PERL Program

W--&gt; 19 &lt;210&gt; SEQ ID NO: 1

20 &lt;211&gt; LENGTH: 351

21 &lt;212&gt; TYPE: PRT

22 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 23 &lt;220&gt; FEATURE:

24 &lt;221&gt; NAME/KEY: misc\_feature

25 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 112301CD1

W--&gt; 26 &lt;400&gt; SEQUENCE: 1

27 Met Thr Leu Arg Leu Leu Glu Asp Trp Cys Arg Gly Met Asp Met  
 28 1 5 10 15  
 29 Asn Pro Arg Lys Ala Leu Leu Ile Ala Gly Ile Ser Gln Ser Cys  
 30 20 25 30  
 31 Ser Val Ala Glu Ile Glu Glu Ala Leu Gln Ala Gly Leu Ala Pro  
 32 35 40 45  
 33 Leu Gly Glu Tyr Arg Leu Leu Gly Arg Met Phe Arg Arg Asp Glu  
 34 50 55 60  
 35 Asn Arg Lys Val Ala Leu Val Gly Leu Thr Ala Glu Thr Ser His  
 36 65 70 75  
 37 Ala Leu Val Pro Lys Glu Ile Pro Gly Lys Gly Gly Ile Trp Arg  
 38 80 85 90  
 39 Val Ile Phe Lys Pro Pro Asp Pro Asp Asn Thr Phe Leu Ser Arg  
 40 95 100 105  
 41 Leu Asn Glu Phe Leu Ala Gly Glu Gly Met Thr Val Gly Glu Leu  
 42 110 115 120  
 43 Ser Arg Ala Leu Gly His Glu Asn Gly Ser Leu Asp Pro Glu Gln  
 44 125 130 135  
 45 Gly Met Ile Pro Glu Met Trp Ala Pro Met Leu Ala Gln Ala Leu  
 46 140 145 150  
 47 Glu Ala Leu Gln Pro Ala Leu Gln Cys Leu Lys Tyr Lys Lys Leu  
 48 155 160 165

*09/965529*  
*Edited prior to field*  
*PTO. MBA*  
*Need to review*  
*new asterisk content*

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Input Set : A:\PF-0731-USA.txt

Output Set: N:\CRF3\11072001\I965529.raw

```

49 Arg Val Phe Ser Gly Arg Glu Ser Pro Glu Pro Gly Glu Glu Glu
50          170          175          180
51 Phe Gly Arg Trp Met Phe His Thr Thr Gln Met Ile Lys Ala Trp
52          185          190          195
53 Gln Val Pro Asp Val Glu Lys Arg Arg Arg Leu Leu Glu Ser Leu
54          200          205          210
55 Arg Gly Pro Ala Leu Asp Val Ile Arg Val Leu Lys Ile Asn Asn
56          215          220          225
57 Pro Leu Ile Thr Val Asp Glu Cys Leu Gln Ala Leu Glu Glu Val
58          230          235          240
59 Phe Gly Val Thr Asp Asn Pro Arg Glu Leu Gln Val Lys Tyr Leu
60          245          250          255
61 Thr Thr Tyr Gln Lys Asp Glu Glu Lys Leu Ser Ala Tyr Val Leu
62          260          265          270
63 Arg Leu Glu Pro Leu Leu Gln Lys Leu Val Gln Arg Gly Ala Ile
64          275          280          285
65 Glu Arg Asp Ala Val Asn Gln Ala Arg Leu Asp Gln Val Ile Ala
66          290          295          300
67 Gly Ala Val His Lys Thr Ile Arg Arg Glu Leu Asn Leu Pro Glu
68          305          310          315
69 Asp Gly Pro Ala Pro Gly Phe Leu Gln Leu Leu Val Leu Ile Lys
70          320          325          330
71 Asp Tyr Glu Ala Ala Glu Glu Glu Glu Ala Leu Leu Gln Ala Ile
72          335          340          345
73 Leu Glu Gly Asn Phe Thr
74          350

```

75 &lt;210&gt; SEQ ID NO: 2

76 &lt;211&gt; LENGTH: 458

77 &lt;212&gt; TYPE: PRT

78 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 79 &lt;220&gt; FEATURE:

80 &lt;221&gt; NAME/KEY: misc\_feature

81 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 997947CD1

W--&gt; 82 &lt;400&gt; SEQUENCE: 2

```

83 Met Gln Ala Thr Ser Asn Leu Leu Asn Leu Leu Leu Leu Ser Leu
84 1          5          10          15
85 Phe Ala Gly Leu Asp Pro Ser Lys Thr Gln Ile Ser Pro Lys Glu
86          20          25          30
87 Gly Trp Gln Val Tyr Ser Ser Ala Gln Asp Pro Asp Gly Arg Cys
88          35          40          45
89 Ile Cys Thr Val Val Ala Pro Glu Gln Asn Leu Cys Ser Arg Asp
90          50          55          60
91 Ala Lys Ser Arg Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn
92          65          70          75
93 Met Ser Gln Ser Ile Glu Val Leu Asn Leu Arg Thr Gln Arg Asp
94          80          85          90
95 Phe Gln Tyr Val Leu Lys Met Glu Thr Gln Met Lys Gly Leu Lys
96          95          100          105
97 Ala Lys Phe Arg Gln Ile Glu Asp Asp Arg Lys Thr Leu Met Thr

```

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Input Set : A:\PF-0731-USA.txt

Output Set: N:\CRF3\11072001\I965529.raw

```

98          110          115          120
99 Lys His Phe Gln Glu Leu Lys Glu Lys Met Asp Glu Leu Leu Pro
100          125          130          135
101 Leu Ile Pro Val Leu Glu Gln Tyr Lys Thr Asp Ala Lys Leu Ile
102          140          145          150
103 Thr Gln Phe Lys Glu Glu Ile Arg Asn Leu Ser Ala Val Leu Thr
104          155          160          165
105 Gly Ile Gln Glu Glu Ile Gly Ala Tyr Asp Tyr Glu Glu Leu His
106          170          175          180
107 Gln Arg Val Leu Ser Leu Glu Thr Arg Leu Arg Asp Cys Met Lys
108          185          190          195
109 Lys Leu Thr Cys Gly Lys Leu Met Lys Ile Thr Gly Pro Val Thr
110          200          205          210
111 Val Lys Thr Ser Gly Thr Arg Phe Gly Ala Trp Met Thr Asp Pro
112          215          220          225
113 Leu Ala Ser Glu Lys Asn Asn Arg Val Trp Tyr Met Asp Ser Tyr
114          230          235          240
115 Thr Asn Asn Lys Ile Val Arg Glu Tyr Lys Ser Ile Ala Asp Phe
116          245          250          255
117 Val Ser Gly Ala Glu Ser Arg Thr Tyr Asn Leu Pro Phe Lys Trp
118          260          265          270
119 Ala Gly Thr Asn His Val Val Tyr Asn Gly Ser Leu Tyr Phe Asn
120          275          280          285
121 Lys Tyr Gln Ser Asn Ile Ile Ile Lys Tyr Ser Phe Asp Met Gly
122          290          295          300
123 Arg Val Leu Ala Gln Arg Ser Leu Glu Tyr Ala Gly Phe His Asn
124          305          310          315
125 Val Tyr Pro Tyr Thr Trp Gly Gly Phe Ser Asp Ile Asp Leu Met
126          320          325          330
127 Ala Asp Glu Ile Gly Leu Trp Ala Val Tyr Ala Thr Asn Gln Asn
128          335          340          345
129 Ala Gly Asn Ile Val Ile Ser Gln Leu Asn Gln Asp Thr Leu Glu
130          350          355          360
131 Val Met Lys Ser Trp Ser Thr Gly Tyr Pro Lys Arg Ser Ala Gly
132          365          370          375
133 Glu Ser Phe Met Ile Cys Gly Thr Leu Tyr Val Thr Asn Ser His
134          380          385          390
135 Leu Thr Gly Ala Lys Val Tyr Tyr Ser Tyr Ser Thr Lys Thr Ser
136          395          400          405
137 Thr Tyr Glu Tyr Thr Asp Ile Pro Phe His Asn Gln Tyr Phe His
138          410          415          420
139 Ile Ser Met Leu Asp Tyr Asn Ala Arg Asp Arg Ala Leu Tyr Ala
140          425          430          435
141 Trp Asn Asn Gly His Gln Val Leu Phe Asn Val Thr Leu Phe His
142          440          445          450
143 Ile Ile Lys Thr Glu Asp Asp Thr
144          455
145 <210> SEQ ID NO: 3
146 <211> LENGTH: 219

```

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/965,529

TIME: 15:03:48

Input Set : A:\PF-0731-USA.txt

Output Set: N:\CRF3\11072001\I965529.raw

```

147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
W--> 149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <223> OTHER INFORMATION: Incyte ID No: 1521513CD1
W--> 152 <400> SEQUENCE: 3
153 Met Asn Ser Ser Lys Ser Ser Glu Thr Gln Cys Thr Glu Arg Gly
154   1           5           10           15
155 Cys Phe Ser Ser Gln Met Phe Leu Trp Thr Val Ala Gly Ile Pro
156           20           25           30
157 Ile Leu Phe Leu Ser Ala Cys Phe Ile Thr Arg Cys Val Val Thr
158           35           40           45
159 Phe Arg Ile Phe Gln Thr Cys Asp Glu Lys Lys Phe Gln Leu Pro
160           50           55           60
161 Glu Asn Phe Thr Glu Leu Ser Cys Tyr Asn Tyr Gly Ser Gly Ser
162           65           70           75
163 Val Lys Asn Cys Cys Pro Leu Asn Trp Glu Tyr Phe Gln Ser Ser
164           80           85           90
165 Cys Tyr Phe Phe Ser Thr Asp Thr Ile Ser Trp Ala Leu Ser Leu
166           95          100          105
167 Lys Asn Cys Ser Ala Met Gly Ala His Leu Val Val Ile Asn Ser
168          110          115          120
169 Gln Glu Glu Gln Glu Phe Leu Ser Tyr Lys Lys Pro Lys Met Arg
170          125          130          135
171 Glu Phe Phe Ile Gly Leu Ser Asp Gln Val Val Glu Gly Gln Trp
172          140          145          150
173 Gln Trp Val Asp Gly Thr Pro Leu Thr Lys Ser Leu Ser Phe Trp
174          155          160          165
175 Asp Val Gly Glu Pro Asn Asn Ile Ala Thr Leu Glu Asp Cys Ala
176          170          175          180
177 Thr Met Arg Asp Ser Ser Asn Pro Arg Gln Asn Trp Asn Asp Val
178          185          190          195
179 Thr Cys Phe Leu Asn Tyr Phe Arg Ile Cys Glu Met Val Gly Ile
180          200          205          210
181 Asn Pro Leu Asn Lys Gly Lys Ser Leu
182          215
183 <210> SEQ ID NO: 4
184 <211> LENGTH: 276
185 <212> TYPE: PRT
186 <213> ORGANISM: Homo sapiens
W--> 187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <223> OTHER INFORMATION: Incyte ID No: 1863994CD1
W--> 190 <400> SEQUENCE: 4
191 Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu
192   1           5           10           15
193 Pro Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln
194           20           25           30
195 Gly Ser Ser Ser Ser Pro Arg Thr Pro Pro Ala Pro Ala Arg Pro

```

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TIME: 15:03:48

Input Set : A:\PF-0731-USA.txt

Output Set: N:\CRF3\11072001\I965529.raw

```

196          35          40          45
197 Pro Cys Ala Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val
198          50          55          60
199 Trp Glu Arg Ala Pro Pro Pro Ser Arg Ser Pro Arg Val Pro Arg
200          65          70          75
201 Ser Arg Arg Gln Val Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro
202          80          85          90
203 Ser Gly Phe Glu Gly Gly Pro Pro Ser Ser Gln Tyr Pro Trp Ala
204          95         100         105
205 Ile Val Trp Gly Pro Thr Val Ser Arg Glu Asp Gly Gly Asp Pro
206         110         115         120
207 Asn Ser Ala Asn Pro Gly Phe Leu Asp Tyr Gly Phe Ala Ala Pro
208         125         130         135
209 His Gly Leu Ala Thr Pro His Pro Asn Ser Asp Ser Met Arg Gly
210         140         145         150
211 Asp Gly Asp Gly Leu Ile Leu Gly Glu Ala Pro Ala Thr Leu Arg
212         155         160         165
213 Pro Phe Leu Phe Gly Gly Arg Gly Glu Gly Val Asp Pro Gln Leu
214         170         175         180
215 Tyr Val Thr Ile Thr Ile Ser Ile Ile Ile Val Leu Val Ala Thr
216         185         190         195
217 Gly Ile Ile Phe Lys Phe Cys Trp Asp Arg Ser Gln Lys Arg Arg
218         200         205         210
219 Arg Pro Ser Gly Gln Gln Gly Ala Leu Arg Gln Glu Glu Ser Gln
220         215         220         225
221 Gln Pro Leu Thr Asp Leu Ser Pro Ala Gly Val Thr Val Leu Gly
222         230         235         240
223 Ala Phe Gly Asp Ser Pro Thr Pro Thr Pro Asp His Glu Glu Pro
224         245         250         255
225 Arg Gly Gly Pro Arg Pro Gly Met Pro His Pro Lys Gly Ala Pro
226         260         265         270
227 Ala Phe Gln Leu Asn Arg
228         275

```

229 &lt;210&gt; SEQ ID NO: 5

230 &lt;211&gt; LENGTH: 375

231 &lt;212&gt; TYPE: PRT

232 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 233 &lt;220&gt; FEATURE:

234 &lt;221&gt; NAME/KEY: misc\_feature

235 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 2071941CD1

W--&gt; 236 &lt;400&gt; SEQUENCE: 5

```

237 Met Ser Ser His Lys Gly Ser Val Val Ala Gln Gly Asn Gly Ala
238   1          5          10          15
239 Pro Ala Ser Asn Arg Glu Ala Asp Thr Val Glu Leu Ala Glu Leu
240          20          25          30
241 Gly Pro Leu Leu Glu Glu Lys Gly Lys Arg Val Ile Ala Asn Pro
242          35          40          45
243 Pro Lys Ala Glu Glu Glu Gln Thr Cys Pro Val Pro Gln Glu Glu
244          50          55          60

```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,529

DATE: 11/07/2001

TIME: 15:03:49

Input Set : A:\PF-0731-USA.txt

Output Set: N:\CRF3\11072001\I965529.raw

L:11 M:283 W: Missing Blank Line separator, <120> field identifier  
L:12 M:283 W: Missing Blank Line separator, <130> field identifier  
L:13 M:283 W: Missing Blank Line separator, <140> field identifier  
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:16 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:17 M:283 W: Missing Blank Line separator, <160> field identifier  
L:19 M:283 W: Missing Blank Line separator, <210> field identifier  
L:23 M:283 W: Missing Blank Line separator, <220> field identifier  
L:26 M:283 W: Missing Blank Line separator, <400> field identifier  
L:79 M:283 W: Missing Blank Line separator, <220> field identifier  
L:82 M:283 W: Missing Blank Line separator, <400> field identifier  
L:149 M:283 W: Missing Blank Line separator, <220> field identifier  
L:152 M:283 W: Missing Blank Line separator, <400> field identifier  
L:187 M:283 W: Missing Blank Line separator, <220> field identifier  
L:190 M:283 W: Missing Blank Line separator, <400> field identifier  
L:233 M:283 W: Missing Blank Line separator, <220> field identifier  
L:236 M:283 W: Missing Blank Line separator, <400> field identifier  
L:291 M:283 W: Missing Blank Line separator, <220> field identifier  
L:294 M:283 W: Missing Blank Line separator, <400> field identifier  
L:333 M:283 W: Missing Blank Line separator, <220> field identifier  
L:336 M:283 W: Missing Blank Line separator, <400> field identifier  
L:389 M:283 W: Missing Blank Line separator, <220> field identifier  
L:392 M:283 W: Missing Blank Line separator, <400> field identifier  
L:423 M:283 W: Missing Blank Line separator, <220> field identifier  
L:426 M:283 W: Missing Blank Line separator, <400> field identifier  
L:475 M:283 W: Missing Blank Line separator, <220> field identifier  
L:478 M:283 W: Missing Blank Line separator, <400> field identifier  
L:529 M:283 W: Missing Blank Line separator, <220> field identifier  
L:532 M:283 W: Missing Blank Line separator, <400> field identifier  
L:621 M:283 W: Missing Blank Line separator, <220> field identifier  
L:624 M:283 W: Missing Blank Line separator, <400> field identifier  
L:695 M:283 W: Missing Blank Line separator, <220> field identifier  
L:698 M:283 W: Missing Blank Line separator, <400> field identifier  
L:781 M:283 W: Missing Blank Line separator, <220> field identifier  
L:784 M:283 W: Missing Blank Line separator, <400> field identifier  
L:851 M:283 W: Missing Blank Line separator, <220> field identifier  
L:854 M:283 W: Missing Blank Line separator, <400> field identifier  
L:897 M:283 W: Missing Blank Line separator, <220> field identifier  
L:900 M:283 W: Missing Blank Line separator, <400> field identifier  
L:993 M:283 W: Missing Blank Line separator, <220> field identifier  
L:996 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1057 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1060 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1105 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1108 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1165 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1168 M:283 W: Missing Blank Line separator, <400> field identifier

## VERIFICATION SUMMARY

DATE: 11/07/2001

PATENT APPLICATION: US/09/965,529

TIME: 15:03:49

Input Set : A:\PF-0731-USA.txt

Output Set: N:\CRF3\11072001\I965529.raw

L:1231 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1234 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1301 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1304 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1341 M:283 W: Missing Blank Line separator, <220> field identifier  
L:2264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:2265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:2266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:3082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62